

Abstracts

Composite Stripline Phase Shifter with Low Loss and Minimum Weight

P.M. Esker, A.W. Morse, J.W. Gippich, Z.A. Diaz and S.R. Kramer. "Composite Stripline Phase Shifter with Low Loss and Minimum Weight." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1239-1242.

An S-Sand phase shifter is described using lightweight composite construction for low cost manufacture with batch processing. Couplers and phase shift networks are grouped together on an unusual printed air stripline medium. Lumped elements and critical ground paths are contained in a mass producible, individually testable hybrid circuit. The low loss, lightweight phase shifter is readily integrable with distribution manifolding and printed radiator arrays.

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